Forest Health Monitoring Program Overview







Forest Health Monitoring Program

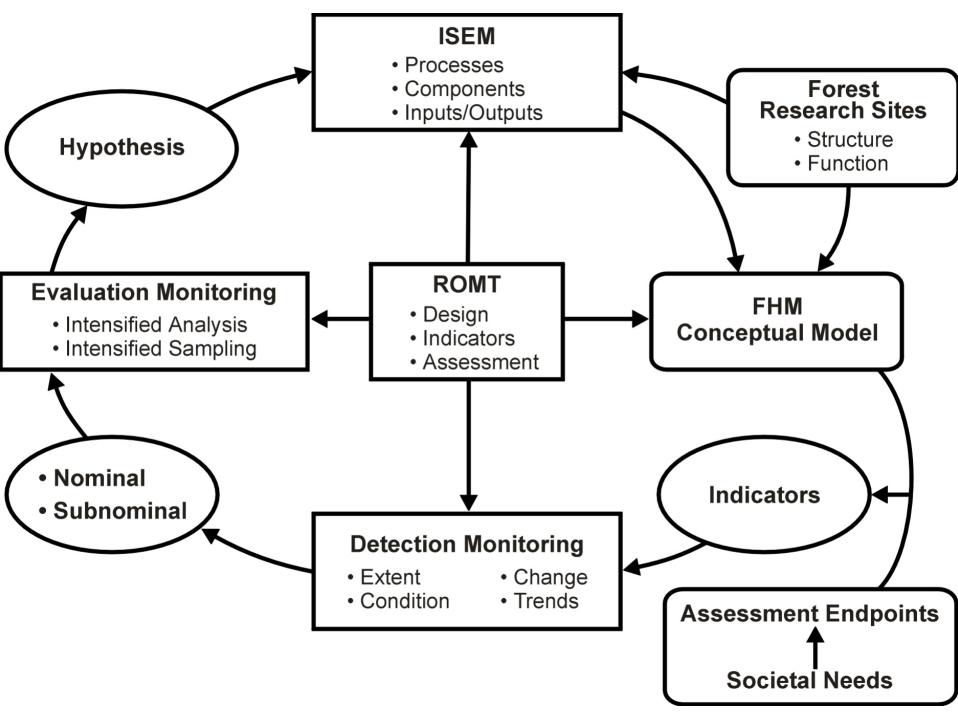
- Initiated in 1990 to provide information on the status, changes, and trends in forest health and sustainability.
- Plot component of FHM integrated with Forest Inventory and Analysis program in 1999
- The FHM program provides information on all forest lands to land-managers and policy makers that affects, directly or indirectly, all Americans.

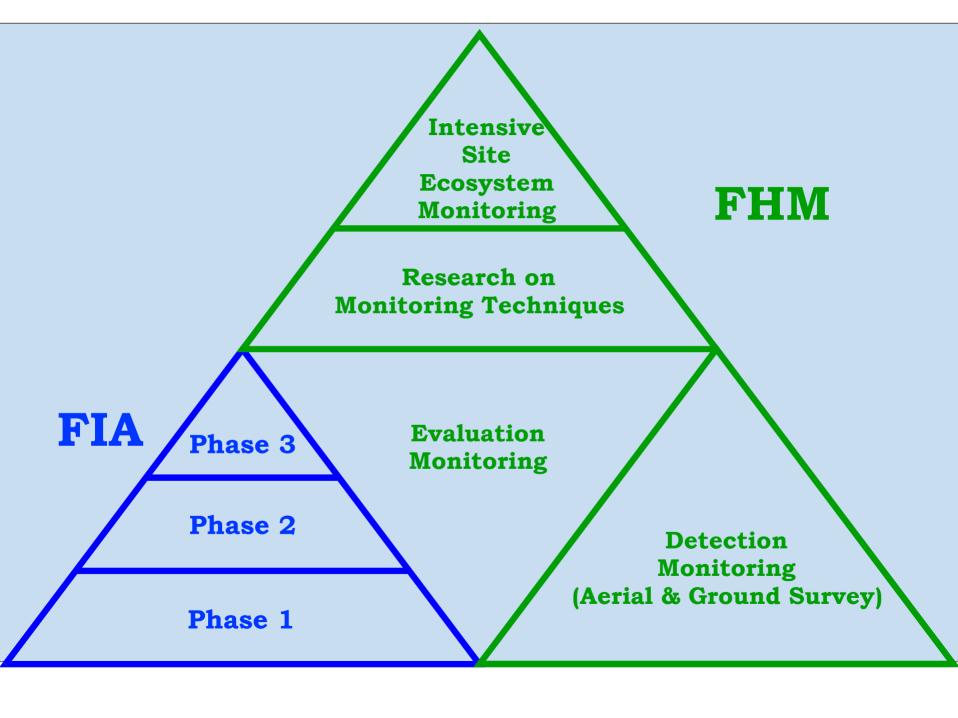
Forest Health Monitoring(FHM) Objectives:

- Establish a monitoring system throughout the forests of the United States to determine detrimental changes or improvements that occur over time.
- Provide baseline and health trend information that is statistically precise and accurate.
- Report annually on status and changes to forest health.

FHM Components

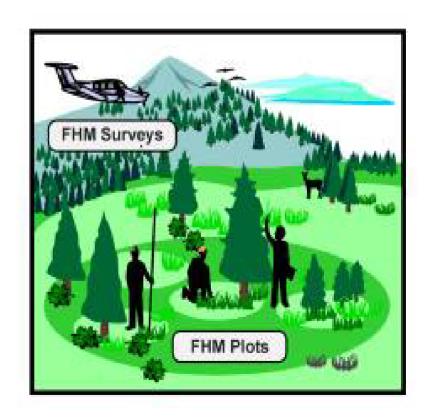
- Detection Monitoring (DM)
- Evaluation Monitoring (EM)
- Research on Monitoring Techniques (ROMT)
- Intensive Site Monitoring (ISM)





Detection Monitoring

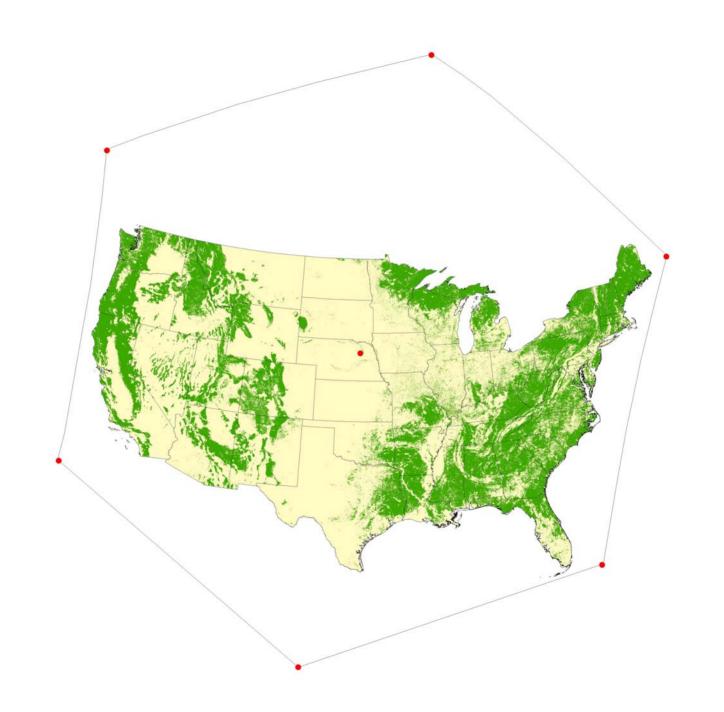
- Nationwide grid of permanent sample points
- Off-plot aerial and ground surveys

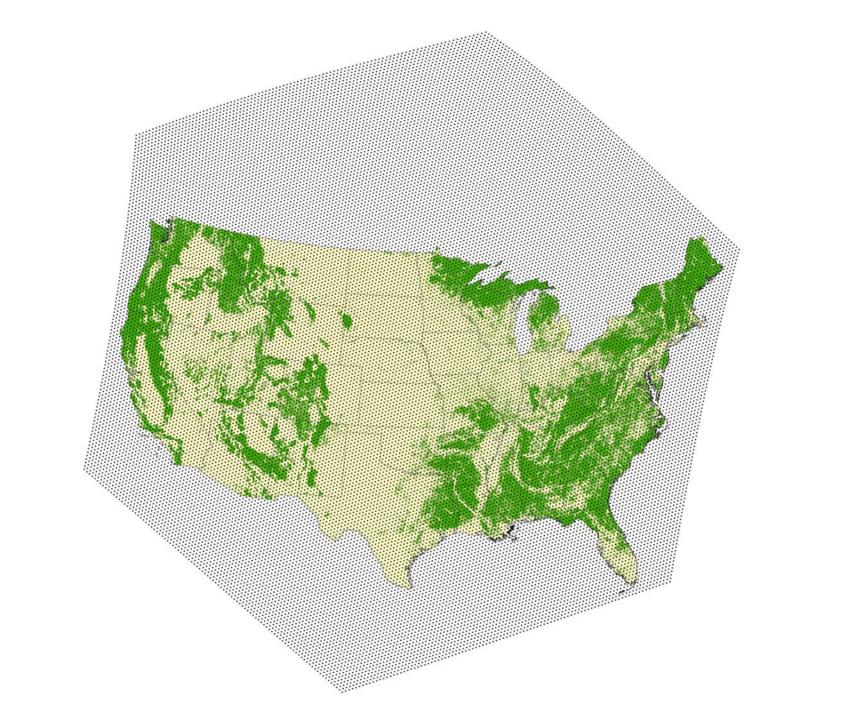


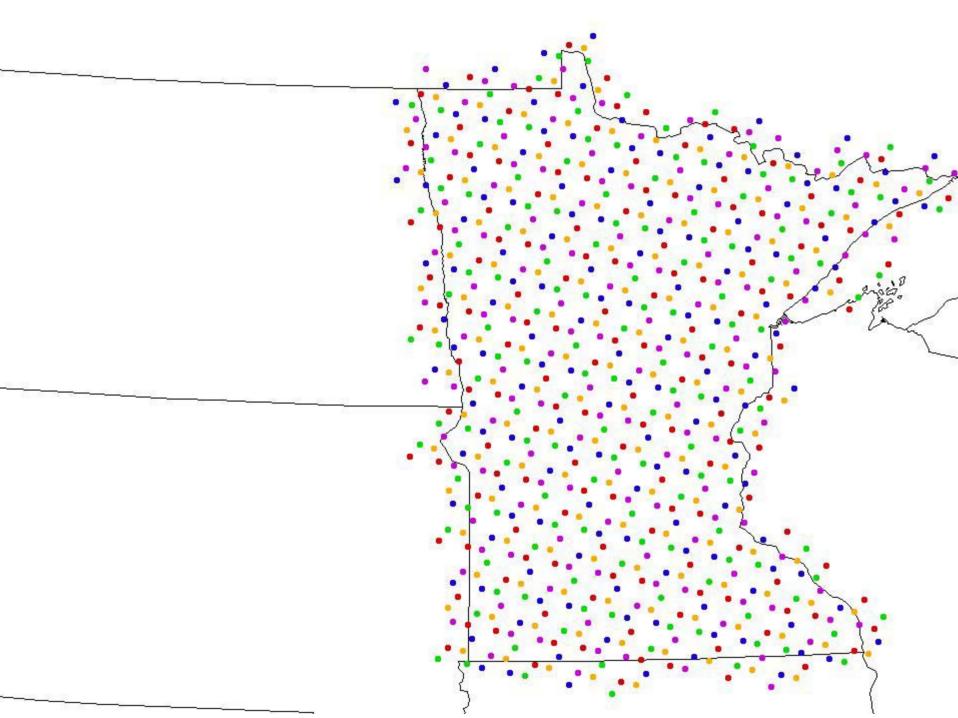
FHM Indicators

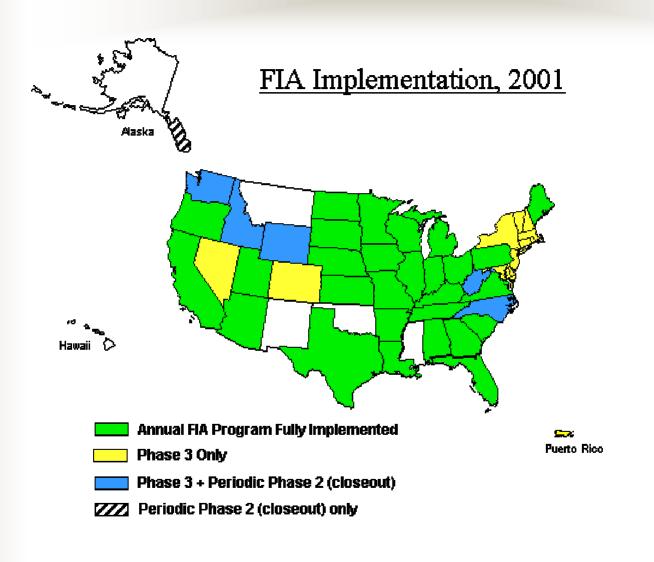
- Tree Growth
- Tree Regeneration
- Tree Crown Condition
- Tree Damage
- Tree Mortality
- Lichen Communities
- Ozone Bioindicator Plants
- Soil Morphology and Chemistry
- Vegetation Structure
- Plant Diversity













Evaluation Monitoring

- Determine the extent, severity, and causes of undesirable forest health changes.
- Address likely cause-and-effect relationships, identify associations between forest health and forest stress indicators.
- Identify management consequences and alternatives for reducing the effects of forest stress.
- Identify research needs.

Intensive Site Ecosystem Monitoring

In depth monitoring of indicators to determine detailed information on key components and processes of selected forest ecosystems

